Big River

DESCRIPTION

The Big River is located southeast of the town of Mendocino, and has approximately 5.5 river miles within the coastal zone. The Big River watershed drains approximately 180 square miles, and the estuary extends 8.3 miles. The Big River watershed supports municipal, industrial, agricultural, and recreational uses; and the cold freshwater habitat supports coho salmon and steelhead trout, both listed as threatened under the federal Endangered Species Act. Between 1852 and 2002, the watershed was intensely managed for commercial timber harvest, including the construction of an extensive road network and in-stream dams.

Big River is impaired by sediment and temperature. Impacts are attributable to several sources, including silviculture, roads, habitat modification, removal of riparian vegetation, and other Non Point Sources (NPS) of pollutants.



Big River Estuary

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For more photos, visit: www.californiacoastline.org.

REASON FOR CCA IDENTIFICATION

The Big River was one of the original CCAs identified in 1995 as an **impaired waterbody that flows into an estuary**.

POLLUTED RUNOFF CONDITIONS

	Top 5 Runoff Pollutants of Concern					
	2002 303(d)-Listed Other Pollutants Pollutants		Efforts to Address Pollutants			
	TMDL Priority		(See next page)			
	(& Proposed Completion if available)					
Selected Coastal Zone Waterbodies	Sediment	Temperature	?	<u>?</u>	?	
Big River ▲	High (2003)	▲ Low				
Big River Estuary ■						
Mendocino Bay •						
Potential Sources of Pollutants in				oastal Wa	terbodies	
Forestry (Silviculture)	A					a, b, c, g, h
Logging Road Construction/Maintenance	A					
Urban Areas						a, b, f, g
➤ Road Construction	A					
> Land Development	A					
Hydromodification						a, b, g
> Streambank Modification		A				
Wetlands & Riparian Areas						a, g
Removal of Riparian Vegetation		A				
➤ Drainage/Filling of Wetlands		A				

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Potential Sources of Pollutants, continued	<u>Sediment</u>	Temperature	?	?	?	Efforts to Address Pollutants
Erosion/Siltation		A				a, b
Habitat Modification		A				a, e, g
Unspecified Nonpoint Source	A	A				a, d

MAJOR EFFORTS TO IMPLEMENT NPS MANAGEMENT MEASURES

MAJOR EFFORTS TO IMILEMENT MIS MANAGEMENT MEASURES							
a)	Total Maximum Daily Load (TMD Development	http://www.waterboards.ca.gov/ northcoast/					
North Coast Regional Water Quality Control Board		Rebecca Fitzgerald	(707) 576-2650	rfitzgerald@waterboards.ca.gov			
	rovides a quantitative assessment of water eductions or control actions needed to restor						
b)	Sustained Yield Plan/ Frykman Gu Elimination and Erosion Control P	http://www.mrc.com/issues/sustained%5Fyield%5Fplan.html					
Men	ndocino Redwood Company						
➤ Replacing an undersized culvert in Frykman gulch that is a partial barrier to upstream salmonid migration; the culvert will be replaced with a bridge making 2800 ft. of stream accessible to Coho and steelhead.							
c)	Timber Harvest Plan Review	http://www.waterboards.ca.gov/northcoast/					
Nor Boa	th Coast Regional Water Quality Control rd	Christine Wright Shacklett	(707) 576-2686	cwright- shacklett@waterboards.ca.gov			
➤ Regulatory oversight of numerous projects in the Navarro River watershed; review proposed Timber Harvest plans; issue waivers or Waste Discharge Requirements (permits); Stormwater program regulates construction activities.							
d)	Coastal Land Trust						
		Rixanne Wehren	(707) 937-2709	rixanne@mcn.org			
➤ Habitat protection for the estuarine and riverine habitats; conducted water quality monitoring, salmon spawning surveys, wetland habitat inventory, and estuary fish surveys on Albion River.							
e)	Mendocino County Resource Cons	http://mrcd.ca.nacdnet.org/					
		Janet Olave	(707) 468-9223	janet-olave@ca.nacdnet.org			
	> The mission of MCRCD is to provide local leadership in the conservation of soil, water, and related natural resources through programs and partnerships with individuals, businesses, organizations and government						
f)	Restructuring Mendocino County Water Agency			http://cemendocino.ucdavis.edu/ Watershed%2DNatural%5FResources			
	versity of California Cooperative ension – Mendocino County	Greg Guisti	(707) 463-4495	cemendocino@ucdavis.edu			
> Project team adapted approaches of strategic and participatory planning to provide a process for interested parties in the county to provide input and direction for the restructuring of the Mendocino County Water Agency.							
g) Big River Preliminary Plan: Resource Assessment and Recommendations (April 2005)				http://www.mendocinolandtrust. org/projects/brpp.shtml			
Mendocino Land Trust (MLT), and California Dept. of Parks and Recreation (DPR)		Matt Gerehart & Mike Wells	(707) 962-0470 (707) 937-5804	mgerhart@mendocinolandtrust. org mwells@parks.ca.gov			
(-1	/			mwens@parks.ca.gov			

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> In 2002, the MLT purchased 7,334 acres of the Big River watershed (including the 8.3-mile estuary) from Campbell-Hawthorne Timber Company and transferred ownership to DPR, to become part of the State Park system. Purpose of acquisition was to (1) preserve and protect the property's estuarine, wetlands, aquatic and other fish and wildlife resources, (2) support late seral forest characteristics and associated natural functions that maximize benefits to salmonid species and wildlife, and (3) provide public access consistent with the protection and enhancement of natural resources. The Coastal Conservancy provided funds toward the acquisition, and in 2003 funded preparation of the Big River Preliminary Plan: Resource Assessment and Recommendations (BRPP). The BRPP was developed with a broad Technical Advisory Committee, and contains recommendations to address sediment delivery to the system, improve aquatic function, eradicate invasive plants, restore riparian function, and preserve sensitive habitats.

h)	Engineering Geologic Resource As (prepared by the California Depar California Geologic Survey for De	http://www.consrv.ca.gov/cgs/index.htm		
Cali	California Geologic Survey Mark Smelser (707) 441-5743			msmelser@conservation.ca.gov
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Geology and geomorphology study, and assessment of roads and watercourse crossings. Identified stream channel conditions and sediment sources, evaluated sediment yield from roads and culverts, and prioritized restoration sites.

REGULATORY/PLANNING JURISDICTIONS

> Mendocino County, Planning Dept.	http://www.co.mendoci no.ca.us/planning/	Charles Hudson	(707) 964-5379	hudsonc@co.mendocino.ca.us
Mendocino County Water Agency		Roland Sanford	(707) 463-4589	sanfordr@co.mendocino.ca.us
Calif. Coastal Commission, Water Quality Unit	http://www.coastal.ca.g ov/nps/npsndx.html	Vanessa Metz	(707) 445-7873	vmetz@coastal.ca.gov
 North Coast Regional Water Quality Control Board, NPS Complaint Response 	http://www.waterboards _ca.gov/northcoast/	Diana Henrioulle- Henry	(707) 576-2350	dhenrioulle- henry@waterboards.ca.gov
> State Water Resources Control Board	http://www.waterboards _ca.gov/	Heidi Hall	(916) 323-2871	hhall@waterboards.ca.gov
California Coastal Conservancy	http://www.coastalcons ervancy.ca.gov/	Karyn Gear	(510) 286-4171	kgear@scc.ca.gov
Calif. Dept. of Forestry, Jackson Demonstration State Forest	http://www.fire.ca.gov/ php/rsrc- mgt_jackson.php	Marc Jameson	(707) 964-5674	marc.jameson@fire.ca.gov
Calif. Dept. of Fish & Game, Coastal Watershed Planning & Assessment Program	http://www.dfg.ca.gov/	Scott Downie	(707) 725-1070	sdownie@dfg.ca.gov
Calif. Dept. of Fish & Game, Marine Region	http://www.dfg.ca.gov/	Pete Kalvass	(707) 964-9080	pkalvass@dfg.ca.gov
Calif. Dept. of Parks & Recreation	http://www.parks.ca.go <u>v</u>	Mike Wells	707-937- 5804	mwells@parks.ca.gov
Caltrans, Stormwater Management	http://www.dot.ca.gov/h q/env/stormwater/	Alex Arevalo	(707) 445-6600	Alex_Arevalo@dot.ca.gov